

WHAT IS CLAIMED IS:

1. A radiographic apparatus comprising a top
plate for supporting a subject; an image receiver for
receiving a radiographic image of said subject; a
5 moving mechanism for varying the position of said image
receiver relative to said top plate and/or posture of
said image receiver; a vertical moving mechanism for
vertically moving said top plate and said image
receiver; and limiting means for limiting the action of
10 said vertical moving mechanism according to the
position relative to said top plate and/or posture of
said image receiver.

2. A radiographic apparatus according to claim 1,
15 wherein said moving mechanism comprises a guide
mechanism for allowing said image receiver to change in
position in the horizontal direction relative to said
top plate and/or in posture.

3. A radiographic apparatus according to claim 1,
20 wherein said moving mechanism comprises a guide
mechanism for guiding the movement of said image
receiver in the horizontal direction, between a first
position under said top plate and a second position at
25 a side of said top plate.

4. A radiographic apparatus according to claim 3,

wherein the action of said vertical moving mechanism is limited in case said image receiver is not in said first position.

5 5. A radiographic apparatus according to claim 3, wherein in case said image receiver is in second position, the action of said vertical moving mechanism is limited in case said image receiver is in a horizontal posture and the action of said vertical moving mechanism is not limited in case said image receiver is in a vertical posture.

Sub
X1
amd.

10 6. A radiographic apparatus according to any one of claims 1 to 5, wherein said limiting means comprises
15 a controller for controlling the action of said vertical moving mechanism and a detector for detecting the position of said image receiver relative to said top plate and/or posture of said image receiver,
wherein said controller executes control of the action
20 based on the detection result of said detector.

25 7. A radiographic apparatus according to claim 1, further comprising a detector for detecting, while said image receiver is in a horizontal posture at a side of said top plate, an obstacle present below said image receiver; wherein the descending operation of said vertical moving mechanism is limited based on the

detection result of said detector.

8. A radiographic apparatus according to claim 1,
further comprising an operation member for operating
5 said vertical moving mechanism, wherein said operation
member is provided in a position difficult to operate
when said image receiver is in a horizontal posture at
a side of said top plate.

10 9. A radiographic apparatus comprising a top
plate for supporting a subject; an image receiver for
receiving a radiographic image of said subject; a
moving mechanism for varying the position of said image
receiver relative to said top plate and/or posture of
15 said image receiver; a vertical moving mechanism for
vertically moving said top plate and said image
receiver; and a detector for detecting, while said
image receiver is in a horizontal posture at a side of
said top plate, an obstacle present below said image
20 receiver; wherein the descending operation of said
vertical moving mechanism is limited based on the
detection result of said detector.

10. A radiographic apparatus comprising a top
25 plate for supporting a subject; an image receiver for
receiving a radiographic image of said subject; a
moving mechanism for varying the position of said image

receiver relative to said top plate and/or posture of
said image receiver; a vertical moving mechanism for
vertically moving said top plate and said image
receiver; and an operation member for operating said
5 vertical moving mechanism; wherein said operation
member is provided in a position difficult to operate
when said image receiver is in a horizontal posture at
a side of said top plate.

10 11. A radiographic apparatus according to claim
1, 9 or 10, wherein said radiographic image is X-ray
image.

15 12. A radiographic apparatus according to claim
11, further comprising an X-ray generator for
generating X-ray.

20 13. A radiographic apparatus according to claim
1, 9 or 10, wherein said image receiver comprises a
radiographic film, a photostimulable phosphor sheet or
a digital radiographic detector.

25 14. A radiographic apparatus comprising a top
plate movable in the horizontal direction, for
supporting a subject; an image receiver for receiving a
radiographic image of said subject; a moving mechanism
for varying the position of said image receiver in the

Sub
X1
Cm10

horizontal direction relative to said top plate and the posture of said image receiver; and limiting means for limiting the movement of said top plate in a predetermined direction in case the posture of said
5 image receiver is not horizontal.

15. A radiographic apparatus according to claim 14, wherein said limiting means comprises a detector for detecting the posture of said image receiver and
10 limits the movement of said top plate based on the detection result of said detector.

16. A radiographic apparatus according to claim 14, wherein said moving mechanism guides the movement
15 of said image receiver in the horizontal direction between a first position below said top plate and a second position at a side of said top plate and also guides switching of said image receiver, in said second
20 position, between a horizontal posture and a vertical posture.

17. A radiographic apparatus according to claim 14, wherein said limiting means limits the movement of
25 said top plate in the lateral direction.

18. A radiographic apparatus comprising a top plate movable in the horizontal direction, for

supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver in the horizontal direction relative to said top plate and the posture of said image receiver; and limiting means for limiting the change in the posture of said image receiver according to the position of said top plate.

19. A radiographic apparatus according to claim 18, wherein said limiting means comprises a detector for detecting the position of said top plate and limits the change in the posture of said image receiver based on the detection result of said detector.

20. A radiographic apparatus according to claim 18, wherein said moving mechanism guides the movement of said image receiver in the horizontal direction between a first position below said top plate and a second position at a side of said top plate and also guides switching of said image receiver, in said second position, between a horizontal posture and a vertical posture.

21. A radiographic apparatus according to claim 18, wherein said limiting means limits the change of the posture of said image receiver from horizontal to vertical.

SUB
X1
CMTD.

11/23/2019 10:43:43 AM

~~Crime~~

20

25

posture.

5 25. A radiographic apparatus according to claim 22, wherein said limiting means limits the movement of said top plate in a the lateral direction.

10 26. A radiographic apparatus comprising a top plate movable in the horizontal direction, for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver in the horizontal direction relative to said top plate and the posture of said image receiver; and a shock absorbing member positioned between said top plate and said image receiver for avoiding direct collision therebetween, in case said top plate is moved in a direction where said image receiver is present while the posture of said image receiver is not horizontal or in case the posture of said image receiver is changed from a horizontal while said top plate is positioned within a predetermined range.

25 27. A radiographic apparatus comprising a top plate movable in the horizontal direction, for supporting a subject; an image receiver for receiving a radiographic image of said subject; and a moving mechanism for varying the position of said image

SUB
CAI
CMTA

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

receiver in the horizontal direction relative to said top plate and the posture of said image receiver; wherein said moving mechanism comprises a locking mechanism for preventing said image receiver from moving in the horizontal direction in case the posture of said image receiver is not horizontal.

28. A radiographic apparatus according to any of claims 14 to 27, further comprising a vertical moving mechanism for vertically moving said top plate and said image receiver.

29. A radiographic apparatus according to any of claims 14 to 27, wherein said radiographic image is X-ray image.

30. A radiographic apparatus according to claim 29, further comprising an X-ray generator for generating X-ray.

31. A radiographic apparatus according to any of claims 14 to 27, wherein said image receiver comprises a radiographic film, a photostimulable phosphor or a digital radiographic detector.